

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

(A) NAME: INRA (INSTITUT NATIONAL DE
LA RECHERCHE AGRONOMIQUE)
(B) STREET: 147 RUE DE L'UNIVERSITE
(C) CITY: PARIS
(E) COUNTRY: FRANCE
(F) POSTAL CODE: 75007

(ii) TITLE OF THE INVENTION: Microspore-specific
promoter and method for producing hybrid plants

(iii) NUMBER OF SEQUENCES: 3

(iv) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version
#1.30 (EPO)

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 497 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

(A) NAME/KEY: M3

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

TTTGGATCTT TCCATGACCC CTTCTTGACC GGCTATGTCA AGCTACATTG CTCCACCGTT	60
GTTGGATCTA CTTCACTCC TCCTTCACAG GCTCCTTAC ATGCTCCTTC TTCACAGGCT	120
CCTTCACATG CTCCTTCACA TGCTCCTTCA CAGGCTCCTT TAAATGCTCT TTAAATGCT	180
CCTTTACATG CTCCTTTACA TGCTCCTTCA CAGGCCCTT CACAGGCCCTT TTCACAGGCC	240
CCTTTACATG CTCCTTTACT GCCCCCTTCG CAGGCTCCTT CACCGGCTCA GTGATTAGC	300
TATTTGATAG AATTACTCAA GTAATGATGC CCTAGGGAGT TTGAGTTTTT CTCGTGTTTT	360

AAAGTTTTGT GTTTATTTTG AGAAAACCGT CTTTGGATTT TAACTTCACT TTGATTTTTT	420
CCCTTATACA ATTTAAATTT AGAGTTTACT TATTAATTTT ATAAATTAGA TGGTACTAAG	480
TTTTTATCAT AATAAAA	497

(2) INFORMATION FOR SEQ ID NO: 2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 674 base pairs
 - (B) TYPE: nucleotide
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

- (ix) FEATURE:
 - (A) NAME/KEY: M3.21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

TCTTGCTATG ATTTTCTTCA TAAGATGTGT CACATCCAAA GTCACAGCAA CAGAACTAGA	60
GTCATCAACT AACCAAGAGC TCTTCCTATC GCGGCACTTG CCTCGCTTTC ACCCCAAGCC	120
ACATTGGCCG TTCTGTGGCT CCGGAAAAGC CTTCCCTGCA GGCCACTTCC GACCAACTCC	180
GTTCCATCTG CCACAGGAAG TCACCAGATG CTTGTCCGAC AAGAAGGAGG TAGGTACATG	240
TTTTGATGAT ATCGTTGAGA CTTTCTTCAC CAGGAAAGCC GTTATTGGAT CGGAATGTTG	300
CGCCGCGATC AAGAAGATGA ACAAAGATTG TGAGAAGACC GTCTTTGGAT CTTTCCATGA	360
CCCCTTCTTG ACAGGCTATG TCAAACCTACA TTGCTCCACC GTTGTGGAT CTACTTCACC	420
TCCTCCTTCA CATGCTCCTT CACAGGCTCC TTTACATGCT CCTTCACAGG CTCCTTTACA	480
TGCCCCCTCA CAGGCTCCTT TACTGCCCCC TTCACAGCCT CTCCCACCGG CTCAGTGATT	540
TTAGCTATTT GTTAGAATTA TTCAAGTGTT GATGTCCTAG GGAGTTTITAG GTTTTTCTTG	600
TTTTAAAATT TTGTGTTTAT TTTGAGAAAA CCGTCTTTGG ATCTTAACTT CACTTTGATT	660
TTTTCCTTAT ACAA	674

(2) INFORMATION FOR SEQ ID NO: 3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2853 base pairs
 - (B) TYPE: nucleotide
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:
(A) NAME/KEY: BnM3.4

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GGATCCCACA AAGAAAACCG AAGAAGCAAA TGTTTCCTAC CTTCATAAAT ATATATTTGT	60
TTCAGCCTCA TCAATGTACA AACAACTCCTT TAGCTCAATG GTATAAATGT TGTGTTTAG	120
ATTTCAATAA CCCGGGTTTCG AGTCATAGAC TTGACACTTT TTCACACTTT TTAAGAGTGG	180
AACGCACATA TCGCTGACGT GTCGCATCAG GAGTGATGCA ACTGCTCTAT TATAATGTAG	240
ATTTAAAGT GGAACCCACG TATCGCTGAC GTGTCGCATC AGGAGTGATG CAACTGCCAT	300
ATTATAACGT AGATTTGACG TTATTCCTTT TTAATCTTA ATAATAATAC CAGNGCTTTT	360
ACTTATTAAT TTTNGCATN GTTATCATGG TTTATGCNCT CTTTTTTTTT GANCCGTTGA	420
TTGGTTTATG CTTATTTGAA TGNGCCNAC GTAAGAAATG AAGAACAATT TATATTTGGA	480
GAAATATAA TTTAATATGT TCAATATATA GAGAAATAT TATNCCTTGA TGTTACTGTA	540
TGGATGCGAG TAGAAGATCT TTGAATAATA TTTGAGAACT TGCCTTTTCT CAAAAAGTAA	600
AATATTTGAT ATGTAACCTA AGTTAACACA TGAAATTA AAAAAATTA AATCAAAATA	660
GAAAAAAGTG ATAGTGATCT ACCCTTCAAC GTTTTGAAC TATTCTTGGT TCACCCCTA	720
AACCTCTAAG TTCACCAAAC AATAAAATTT CATTATTGCA TATTCTATAT CTTTAGAAA	780
GTGAAACAAA ATATTATCAA GTTATATTAT GTTTTTCAAA TAAAAGATA AAAATAAAT	840
AAAAAATAAT AGTAGTTACA AAAAAAAAAA ATTAATATTT TTACCAGCGT CANAAAACAC	900
TAAAACCTAA ACCCTAAATA TAAACTTTT AGGTAAACCC TAAACCTTG GATAAATCTT	960
AAACATTAAA CATTAAACA CTAAACCCTA AATCCTAAAC TCTAAACCCT TAAGTGTTA	1020
AATGTTTAGT GTTTTGATT TATAGTTTAG GATTATCCA AAGGTTTAAG GTTTACCCAA	1080
GAGTTTATGG TTTAGGGATT ATGACTTAGG ATTTAGTGTT TTAGTGACGA CGTTCAAAGT	1140
ATTTTTTAA AAATATTTT TTTGTAACAA CTACTATTTT TATTTATTTT TTTACCTTTT	1200
TATATTAAA ACATAATATA ATTTAATACT CCATCTGTTT CATATTAAGT GTCATTGTAA	1260

CATTATTTTT	TTGTTACAAA	AAAATTGTCA	CTTTAGAATT	CCAATGCAAA	ATTTATTTAT	1320
TTTTTCAGCTA	AAATTAATTG	CAAAGTGCAT	TGATCTTATA	AATAATTTTA	TTTATCTCAA	1380
ATGCTATATT	GGTCAAACAT	GTGTAATTAA	TAGAACTTA	ATTATATTTT	ATTTATTTTT	1440
TCTTAATCTG	TGTAAAAATG	TCAAAGTAAA	ATTTATTTAG	AAACGAATTG	AGTAATATTT	1500
TGTTTCATTT	TTTAAAAGAT	ATCGAATATG	AAATAACACA	ATTTTATTGT	ATGATGAACC	1560
TAAAAATTCA	TCCTAAGAAG	GTGAACGCAA	GAATAAGTCA	ACGTTTTGGG	GAAAGCTAAC	1620
TATGGCCCAA	AGTCATCAAA	ATCTTTCTTG	TATTTATCAA	AATCCTTACA	AATTTAGTTA	1680
GAGTTAATAG	ACCAAACACA	TGATTATCAT	CATATTAGAA	TATTCTAAAA	AATTACTAGC	1740
GAATAATTAA	AATCTTTCTT	TTATTTATCA	AAATCCTTAT	AAAACTTAT	TTATATATAC	1800
TAAACAATT	TTAATTAAAA	GAAAATAAGG	GACCATGGAT	ACATAAAAAAT	ATATGTTATT	1860
TCTTAAGATA	GTGATAATAT	TAATATATAC	CAGTCCATAT	ATTTATCAAA	ATAAATAATA	1920
TTTTTCGTAG	TCCGATAATC	ATTACTATAA	ATTCATAAAA	CCACATGTAG	ATGTATATTT	1980
TATTTATATA	TATATATATA	AACCCTAACG	CCTTACCACT	CGATAACCAT	CAAACTTTT	2040
CTTCTCGTTT	CGCTAACTCA	AGGCTTCGAA	AAGTAAAAAA	AACAATGAAG	AATGTCACAC	2100
TTGTTCTTGC	TATGATCCTC	TTCTTAAGCT	GTGTCACATC	CAAAGTTACA	GCAACAGAAC	2160
TAGAGTCATC	AACTAACCBA	GAGCTCTTCC	TATCGCGGCA	CTTACCTCGC	TTTCACCCCA	2220
AGCAACATTG	GCCGTTCCGT	GGCTCCGGAA	AAGCCTTCCC	TGCAGGCCAC	TTCCGACTAA	2280
CTCCGTTCCA	TCTGCCACAG	GAAGTCACCA	GATGCTTGAA	CGACAAGAAG	GAGGTAGGTA	2340
CATGTTTTAA	TGATATCGCT	GAGACTTTCT	TCACCAGGAA	AGCCGCTATT	GGATCGGAAT	2400
GTTGCGCCGC	GATCAAGAAG	ATGAACAAAG	ATTGTGAGAA	GACCGTCTTT	GGATCTTTCC	2460
ATGACCCCTT	CTTGACCGGC	TATGTCAAGC	TACATTGCTC	CACCGTTGTT	GGATCTACTT	2520
CACCTCCTCC	TTACAGGCT	CCTTTACATG	CTCCTTCTTC	ACAGGCTCCT	TCACATGCTC	2580
CTTCACATGC	TCCTTCACAG	GCTCCTTTAA	ATGCTCCTTT	AAATGCTCCT	TTACATGCTC	2640
CTTTACATGC	TCCTTCACAG	GCCCCTTCAC	AGGCCCTTC	ACAGGCCCTT	TTACATGCTC	2700
CTTTACTGCC	CCCTTCGCAG	GCTCCTTCAC	CGGCTCAGTG	ATTTAGCTAT	TTGATAGAAT	2760
TATTCAAGTA	TTGATGTCCT	AGGGAGTTTT	AGTTTTTTTC	TTGTTTTAAA	ATTTTGTGTT	2820
TATTTTGAGA	AAACCGTCTT	TGGATTTTAA	CTT			2853